INFORMATION SHEET

ORDER R5-2020-XXXX
BARREL TEN QUARTER CIRLCE LAND COMPANY
BARREL TEN QUARTER CIRCLE, ESCALON CELLARS
SAN JOAQUIN COUNTY

Facility Description

The Barrel Ten Quarter Circle, Escalon Cellars facility consists of a winery and land application areas (LAAs). The winery crushes up to 60,000 tons of grapes annually during the crush season (generally August through October) and operates year-round. The grapes are crushed, fermented, pressed and filtered, and stabilized, and then hauled off-site to other facilities for bottling and packaging. Wine from other facilities is transported to the winery for finishing, stabilization, and storage.

WDRs Order R5-2009-0038, adopted on 24 April 2006, prescribes requirements for the discharge of wastewater to LAAs. Barrel Ten Quarter Circle, Escalon Cellars (Discharger) owns and operates the winery that generates the waste and is responsible to compliance with this Order.

The Discharger has expanded the LAAs, which need to be included in an updated Order. Therefore, Order R5-2009-0038 will be rescinded and replaced with this Order.

Process Wastewater

Wastewater is generated from the wine making process, equipment and facility cleaning, and rinsing the truck trailer beds. The wastewater treatment system consists of screens, sumps, equalization/blending tanks, and LAAs.

Wastewater is collected in a flush water sump via trench drains and grade separators. Wastewater from the flush water sump is then pumped through a wire screen to remove solids and then collected in one of two 80,000-gallon concrete storage tanks for reuse.

Once the wastewater can no longer be reused, the water is directed to a process water sump which directs wastewater to one of four process water tanks for equalization, blending, and storage prior to discharging to the LAAs.

Wastewater is used to irrigate 95 acres of LAAs cropped with Sudan grass in the summer and winter forage in the winter. The LAAs are flood irrigated and all runoff is collected in a tailwater basin and reapplied on the LAAs.

Annual wastewater flow rates measured between 2016 and 2018 ranged from approximately 26 million gallons to 31 million gallons. Supplemental irrigation water is needed to meet crop demands.

Site-Specific Conditions

Surrounding land uses are predominately agricultural lands and residences. The annual average precipitation in the area is approximately 12.3 inches and the 100-year annual precipitation is approximately 31 inches. Based on data published by the California

Irrigation management Information System (CIMIS) for the Manteca Station, the reference evapotranspiration rate is approximately 53 inches per year.

Groundwater Conditions

The facility has 10 groundwater monitoring wells. In 2018, depth to groundwater beneath the facility ranged from 72 to 75 feet below ground surface (bgs). The local gradient typically flows from the northwest.

Concentration trends generally show stable or decreasing trends for select constituents in groundwater. Upgradient groundwater quality in the area is considered poor with respect to TDS and nitrate as nitrogen. The discharge of wastewater to the LAAs does not appear to be degrading groundwater beyond existing upgradient/background conditions.

Legal Effect of Rescission of Prior WDRs or Orders on Existing Violations

The Board's rescission of prior waste discharge requirements and/or monitoring and reporting orders does not extinguish any violations that may have occurred during the time those waste discharge requirements or orders were in effect. The Central Valley Water Board reserves the right to take enforcement actions to address violations of prior prohibitions, limitations, specifications, requirements, or provisions of rescinded waste discharge requirements or orders as allowed by law.

Monitoring and Reporting Program

The Monitoring and Reporting Program is designed to verify compliance with effluent limitations and operational requirements of the WDRs.